

PATENT

Attorney Docket No. 227745 Client Reference No. 58241-2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit: 1754

Examiner: Unassigned

In re Application of:

Selinger et al.

For:

Application No. 10/790,530

Filed: March 1, 2004

PROCESS AND APPARATUS FOR CONVERTING HYDROGEN SULFIDE INTO HYDROGEN AND SULFUR

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment-Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as

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	set forth in 37 CFR 1.491 of an international application; (c) before the mailing date of a first Office Action on the merits; or (d) before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.
	after (a), (b), (c) or (d) above, but before the mailing date of a final action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and includes <i>one</i> of:
	the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	after the mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance under 37 CFR 1.311, or an action that otherwise closes prosecution in the application, and on or before payment of the issue fee, and includes the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below).
	after the mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before payment of the issue fee, and within thirty days of receiving each item of information contained in the Information Disclosure Statement, and includes the Statement under 37 CFR 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of \$180 as set forth in 37 CFR 1.17(p) (see "Fees" below). NOTE: This is for original applications except applications for a design patent, filed on or after May 29, 2000, wherein a paper containing only an Information Disclosure Statement in compliance with 37 CFR 1.97 and 1.98 is being filed.
Copie	s of the References
	Copies of all of the references listed on the enclosed Form 1449 are enclosed herewith.
	This patent application was filed after June 30, 2003. Accordingly, copies of U.S. patents and patent applications that are listed on the accompanying Form 1449 are not enclosed herewith (see Official Gazette Notice of August 5, 2003). Copies of other references identified on the accompanying Form 1449 are enclosed herewith.
	Attached to each reference not in the English language is a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of the relevance pursuant to 37 CFR 1.98(a)(3).
	A copy of the foreign search report is enclosed herewith.

	Appln. of Selinger et cation No. 10/790,53						
	parent application(furnished at that t submitted herewith The Examiner is accordance with t Procedure. In according upon for an	ed on the enclosed For s) of the present application. Accordingly, add, so as not to burden the respectfully requested the requirements set of rdance with 37 CFR 1.9 in earlier filing date unitariously furnished are set.	cation, and co ditional copies he file with du to carefully ut in the Ma 8(d), the detail der 35 USC 1	pies of the reference of the reference of the reference of the parence of the par	references were erences are not s of references references in ent Examining at application(s)		
	U.S. APPLIC	CATIONS	S	tatus (check o	ne)		
U	S. APPLICATIONS	U.S. FILING DATE	PATENTED	PENDING	ABANDONED		
1.							
2.							
3.							
State	ment under 37 CFR	1.97(e)					
	Information Disclo	hereby states that each osure Statement was fince in a counterpart foreign filing of the Information	rst cited in a gn patent app	ny commun lication not r	ication from a		
	The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.						
State	ment under 37 CFR	1.704(d)					
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 CFR 1.56(c) more than thirty days prior to the filing of the Information Disclosure Statement.						
Fees							
	No fee is owed by t The IDS Fee of \$18	he applicant(s). 30 under 37 CFR 1.17(p)) is enclosed he	erewith.			

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Method of Payment of	Fees
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Attached is a check in the amount of \$.

Charge Deposit Account No. 12-1216 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)

Authorization to Charge Additional Fees

If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)

Instructions as to Overpayment

Credit Account No. 12-1216.

Refund

Salim A. Hasan, Reg. No. 38,175 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900 180 North Stetson Avenue Chicago, Illinois 60601-6780

Chicago, Illinois 60601-6780 (312) 616-5600 (telephone) (312) 616-5700 (facsimile)

Date: July 6, 2004

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop , Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IDS (Revised 5/21/03)

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Substitute for fo	orm \$449A/B/PTO			Application Number	10/790,530	
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OTA	JRIVIATION TEMPLE	DISC	PLOSURE	First Named Inventor	Selinger et al.	
SIA	TEMENT B	Y AP	PLICANI	Group Art Unit	1754	
	(Use as many sheet	ts as ne	cessary)_	Examiner Name	Unassigned	
Sheet	1	of	1	Attorney Docket Number	227745	

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f Filing Date If on Appropriate
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993
1998
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		Foreign Patent Document					Translation	
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
	ΑE	DE	3526787	A1	Union Rheinische Braunkohlen	Jan. 29, 1987		X⁺
	AF	EP	1 085 075	A1	ABB Research Ltd.	Mar. 21, 2001		
	AG	FR	2 620 436	A1	BP France	Mar. 17, 1989		X⁺
	AH	FR	2 639 630	A1	BP France	Jun. 1, 1990		X ⁺
	ΑI	RU	2 131 396	C1	Chizhov et al.	Jun. 10, 1999		X⁺
	ΑJ	WO	00/56441	A1	University of Wyoming	Sep. 28, 2000		
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		OTHER - NON PATENT LITERATURE DOCUMENTS			
Examiner	ner Doc. Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item		Translation		
Initials		(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+	
-	AK	DOW GAS TREATING PRODUCTS AND SERVICES, Specialty Alkanolamines	I		
		Products, Retrieved May 12, 2003, from http://www.dow.com/alkanolamines/dg_alk.htm	l		
	ΑL	EXXONMOBIL RESEARCH AND ENGINEERING COMPANY, Fuels Technologies,			
		Retrieved September 10, 2003, from			
		http://www.prod.exxonmobil.com/refiningtechnologies/fuels/mn_flexsorb.html			
	ΑМ	EXXON RESEARCH & ENGINEERING COMPANY, Flexsorb: Solvents for Selective			
		H₂S Removal, 1-7			
	AN	LUINSTRA, Converting Hydrogen Sulfide by the Claus Process, Retrieved June 30,			
		2003, from http://www.nelliott.demon.co.uk/company/claus.html			
	ΑO	NATCO GROUP, Amine Gas Sweetening Systems, 7, 531A1-A2 (2002)			
	AP	SLIMANE et al., Proceedings of the 2002 U.S. DOE Hydrogen Program Review, 1-15			
		(2002)			
	ΑQ	THE CHEMICAL ENGINEERS' RESOURCE PAGE, Exploring the Claus Process,			
		Retrieved September 23, 2003, from http://www.cheresources.com/claus.shtml			
	AR	WEILAND et al., 53 rd Annual Laurance Reid Gas Conditioning Conference (2003)			
	AS	Material Safety Data Sheet for Flexsorb SE EC9016A, Ondeo Nalco Canada Company			
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Examiner Signature	_	Date Considered	-	
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^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

+ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).